FIGURE 1

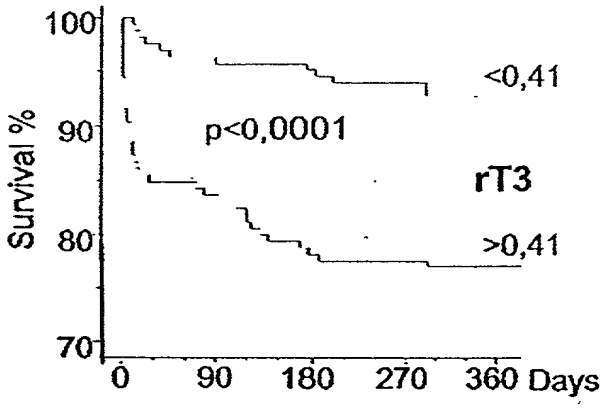


FIGURE 2

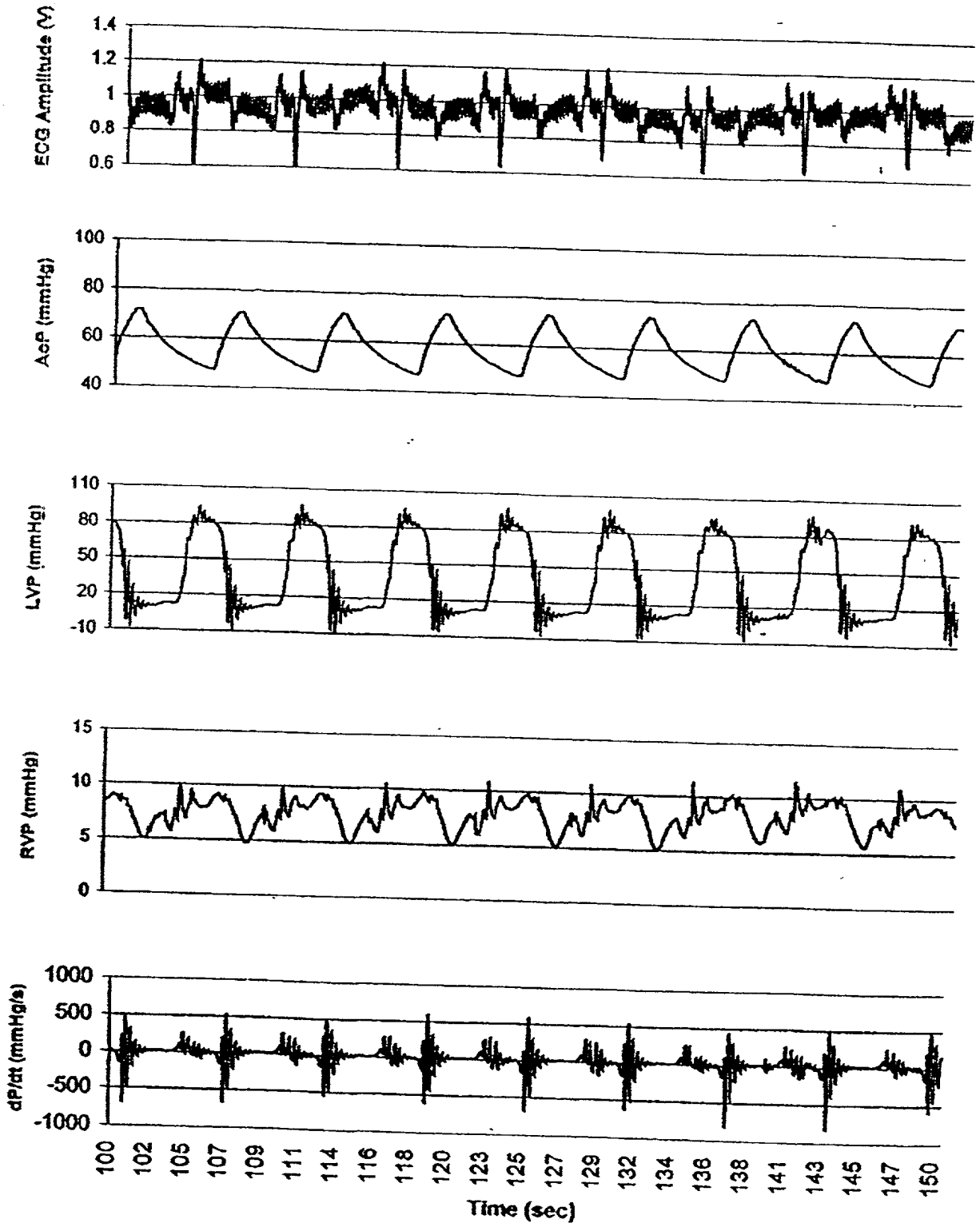

ECG Amplitude (V)
1.4
1.2
1
0.8
0.6
AoP (mmHg)
100
80
60
40
LVP (mmHg)
110
80
50
20
-10
RVP (mmHg)
15
10
5
0
dP/dt (mmHg/s)
1000
500
0
-500
-1000
100
102
105
107
109
111
114
116
118
120
123
125
127
129
132
134
136
138
141
143
145
147
150
Time (sec)

FIGURE 3

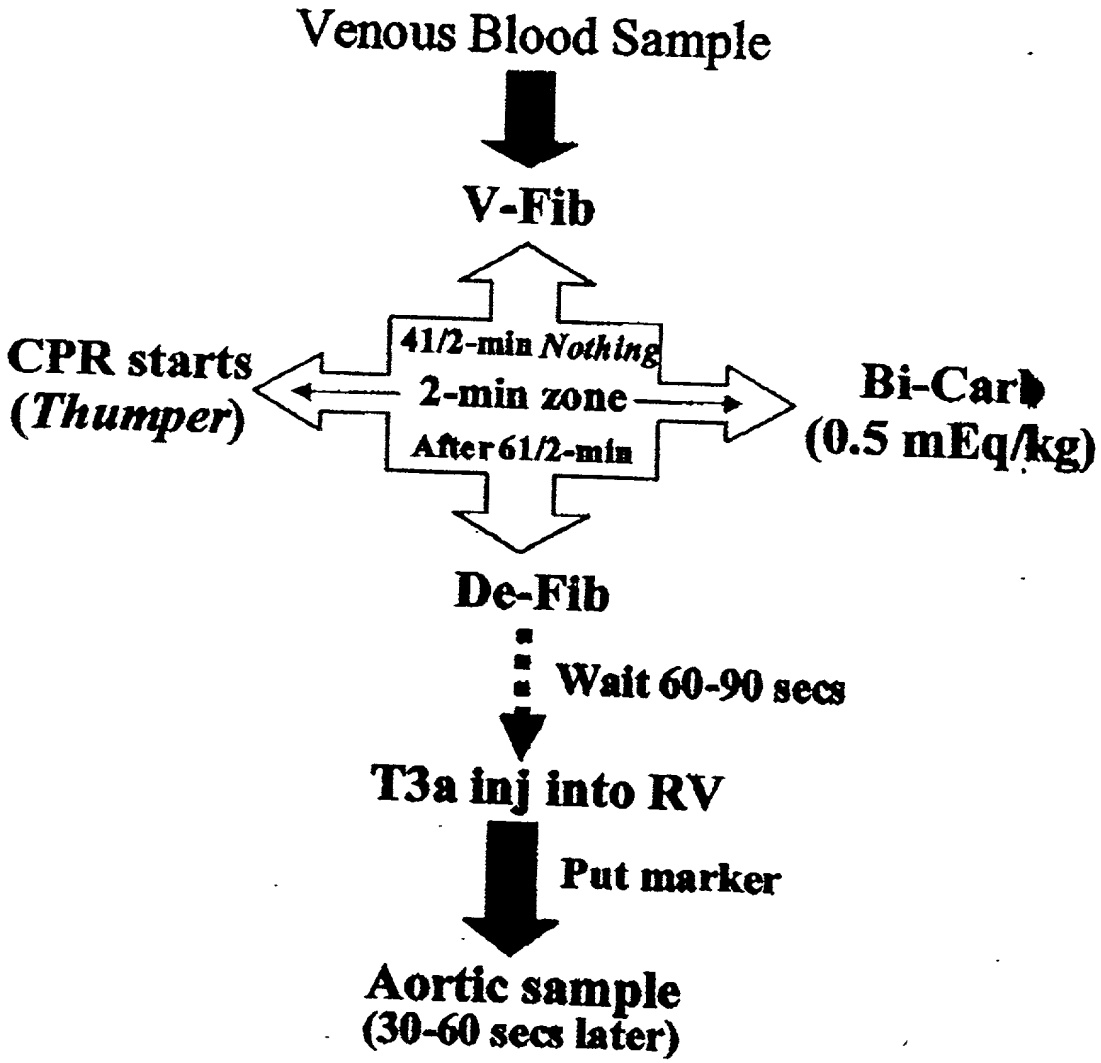
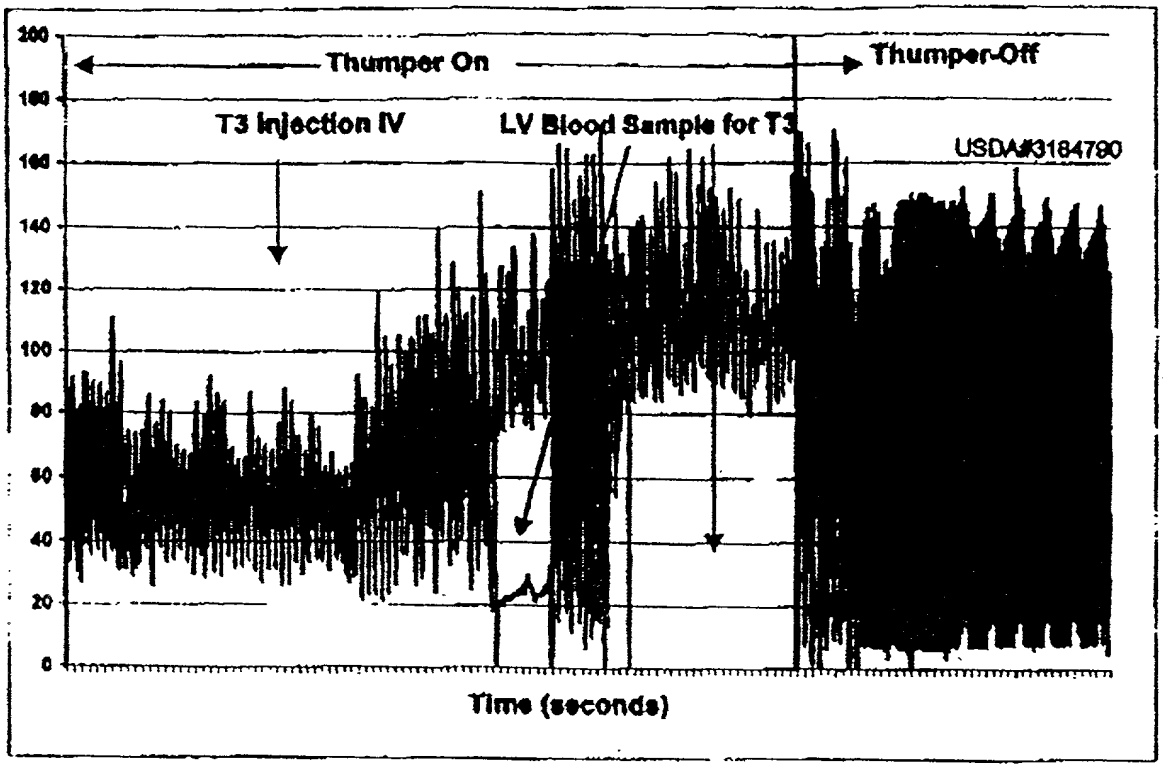

Venous Blood Sample
V-Fib
41/2-min Nothing
2-min zone
After 61/2-min
CPR starts
(Thumper)
Bi-Carb
(0.5 mEq/kg)
De-Fib
Wait 60-90 secs
T3a inj into RV
Put marker
Aortic sample
(30-60 secs later)

FIGURE 4

A


Thumper On
Thumper-Off
T3 injection IV
LV Blood Sample for T3
USDA#3184790
Time (seconds)

B

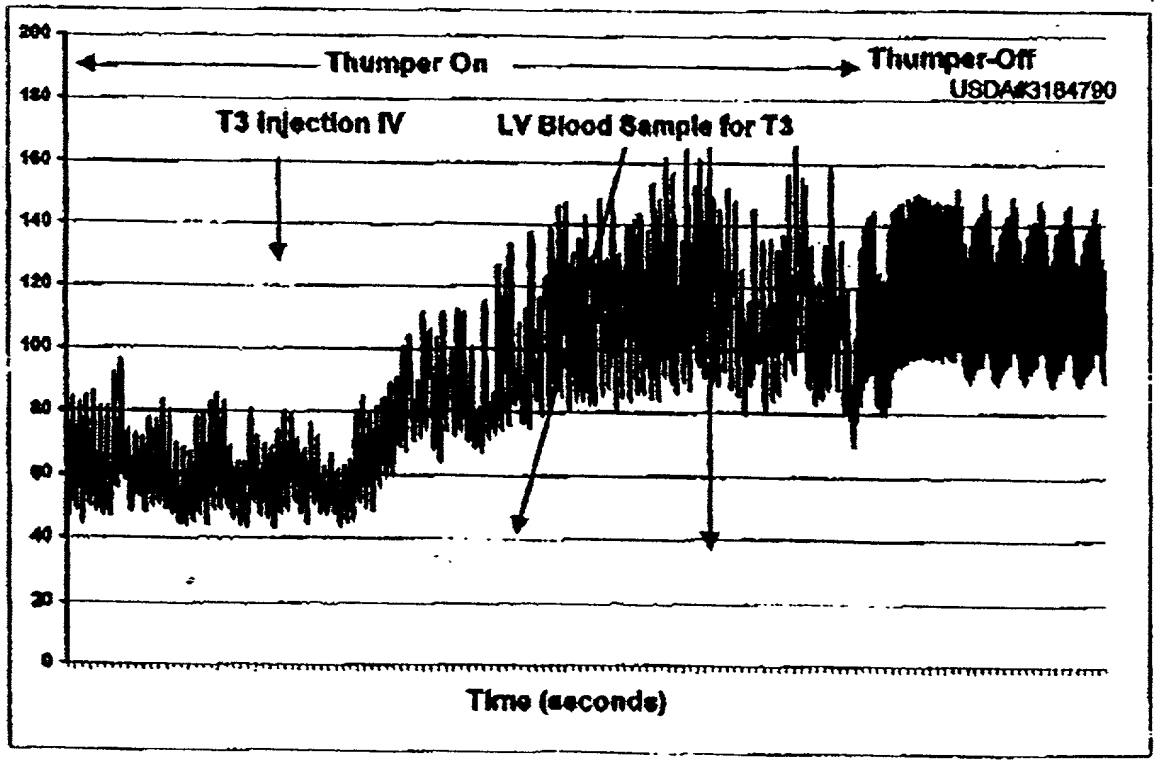
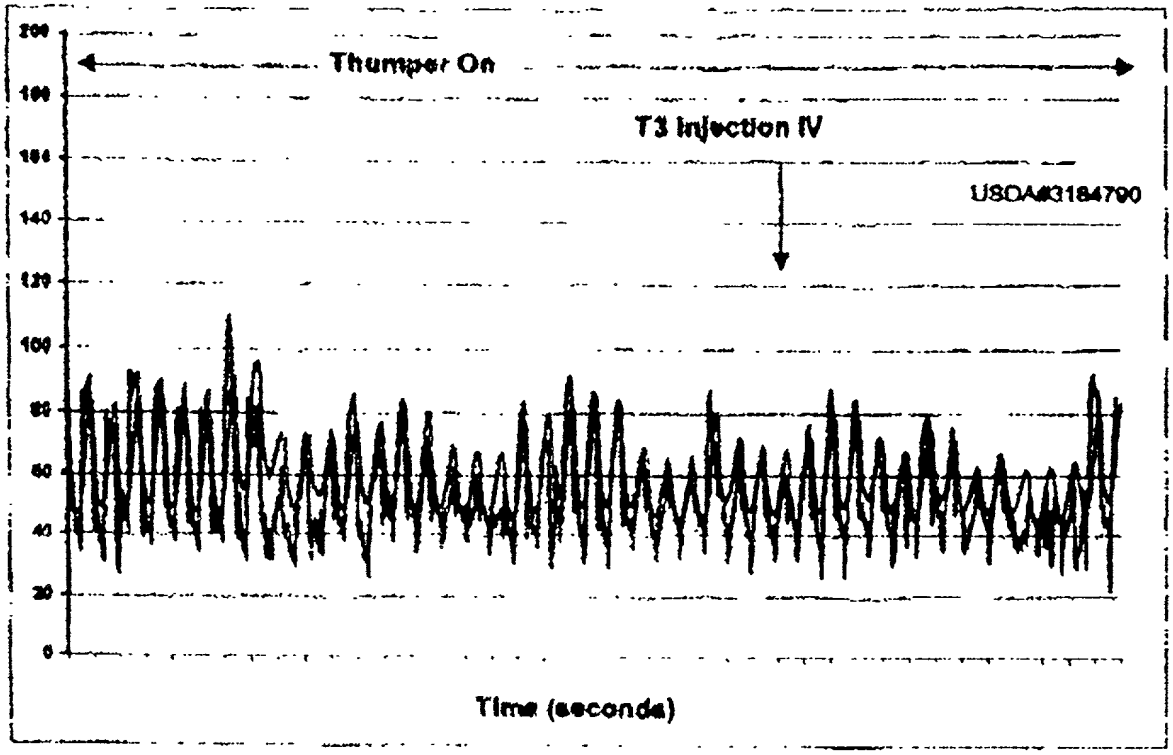

Thumper On
Thumper-Off
USDA#3184790
T3 injection IV
LV Blood Sample for T3
Time (seconds)

FIGURE 4

C


Thumper On
T3 injection IV
USDA#3184790
Time (seconds)

D

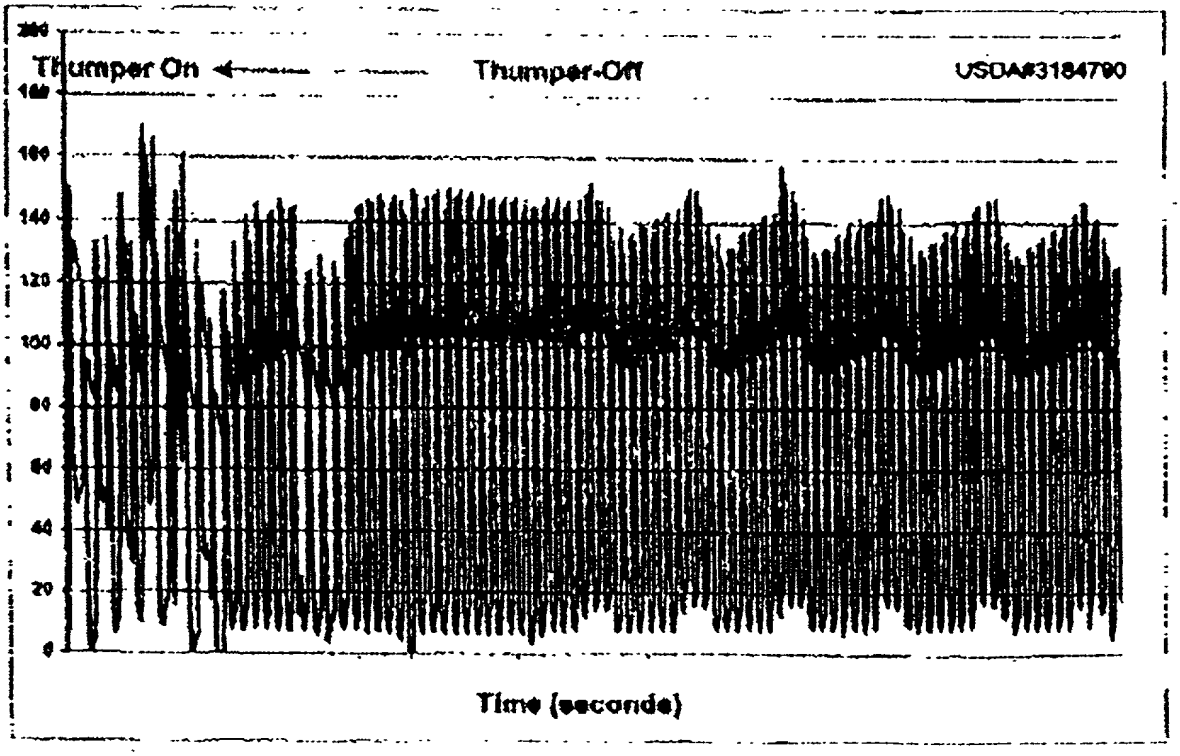
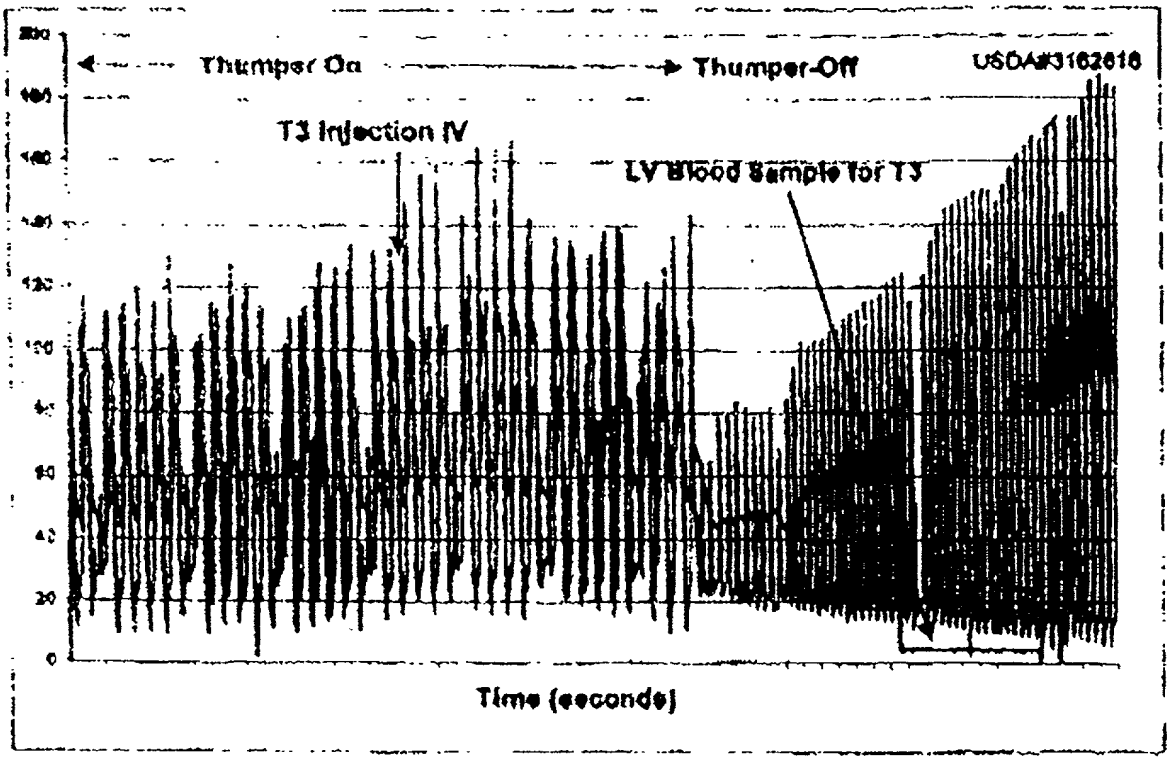

Thumper On
Thumper-Off
USDA#3184790
Time (seconds)

FIGURE 4

E


Thumper On
Thumper-Off
USDA#3162618
T3 Injection IV
LV Blood Sample for T3
Time (seconds)

F

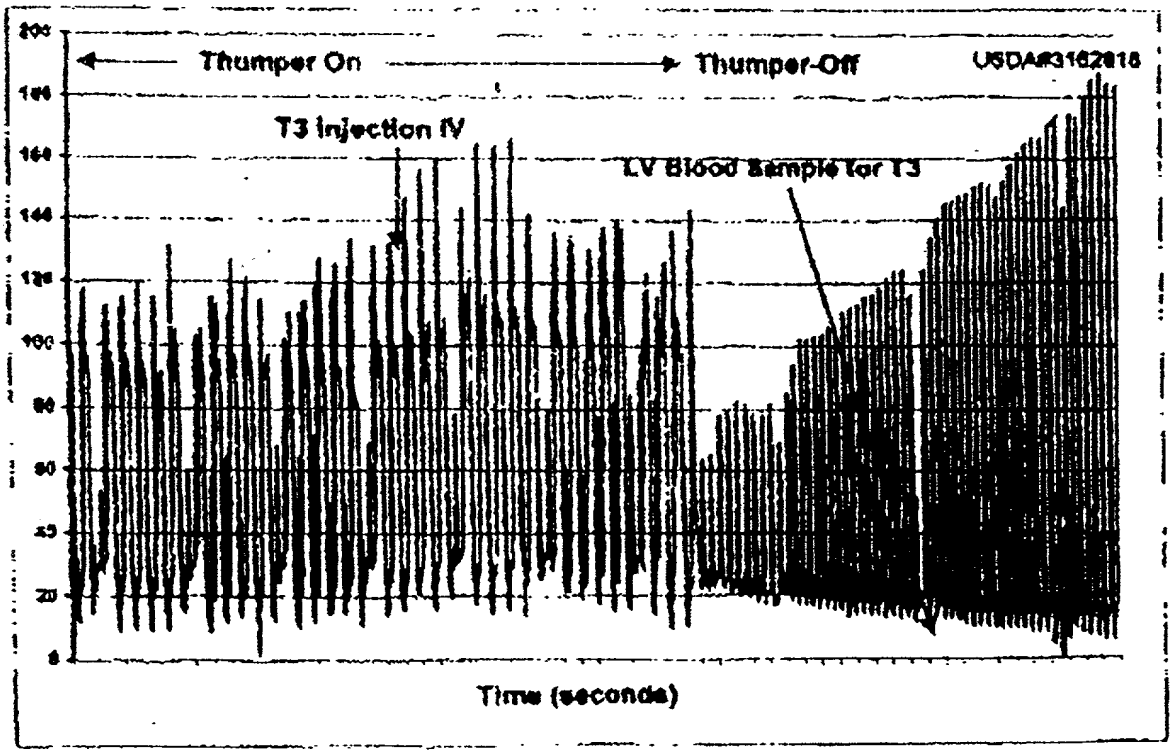
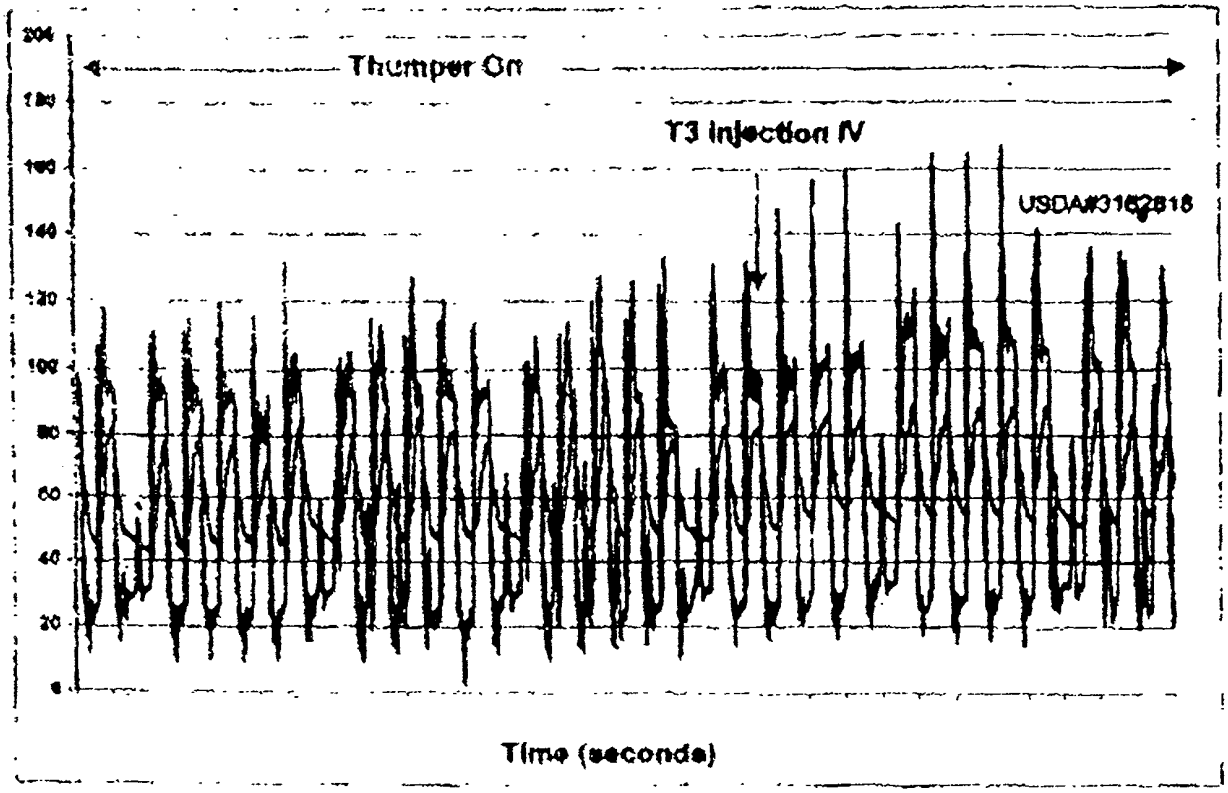
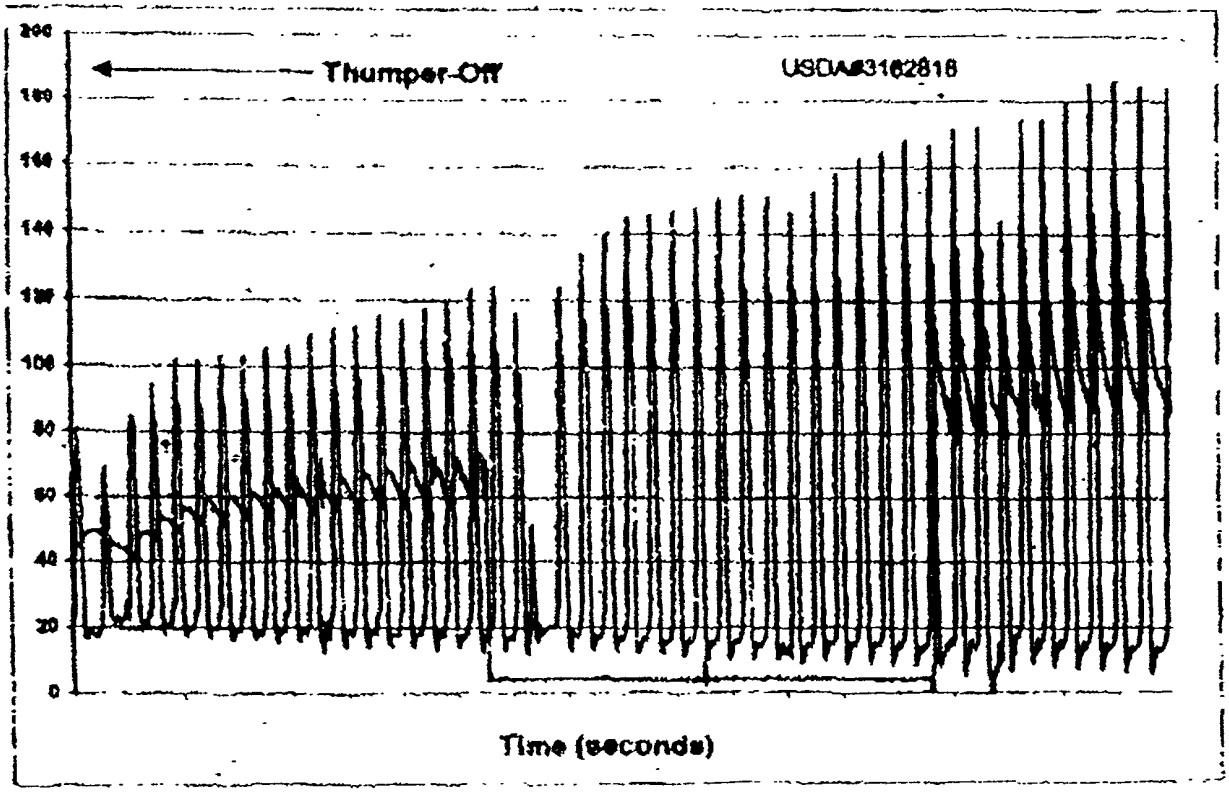

Thumper On
Thumper-Off
USDA#3162618
T3 Injection IV
LV Blood Sample for T3
Time (seconds)

FIGURE 4


Thumper On
T3 injection IV
USDA#3162816
Time (seconds)


Thumper-Off
USDA#3162816
Time (seconds)

WO 2004/064660 PCT/US2004/000960

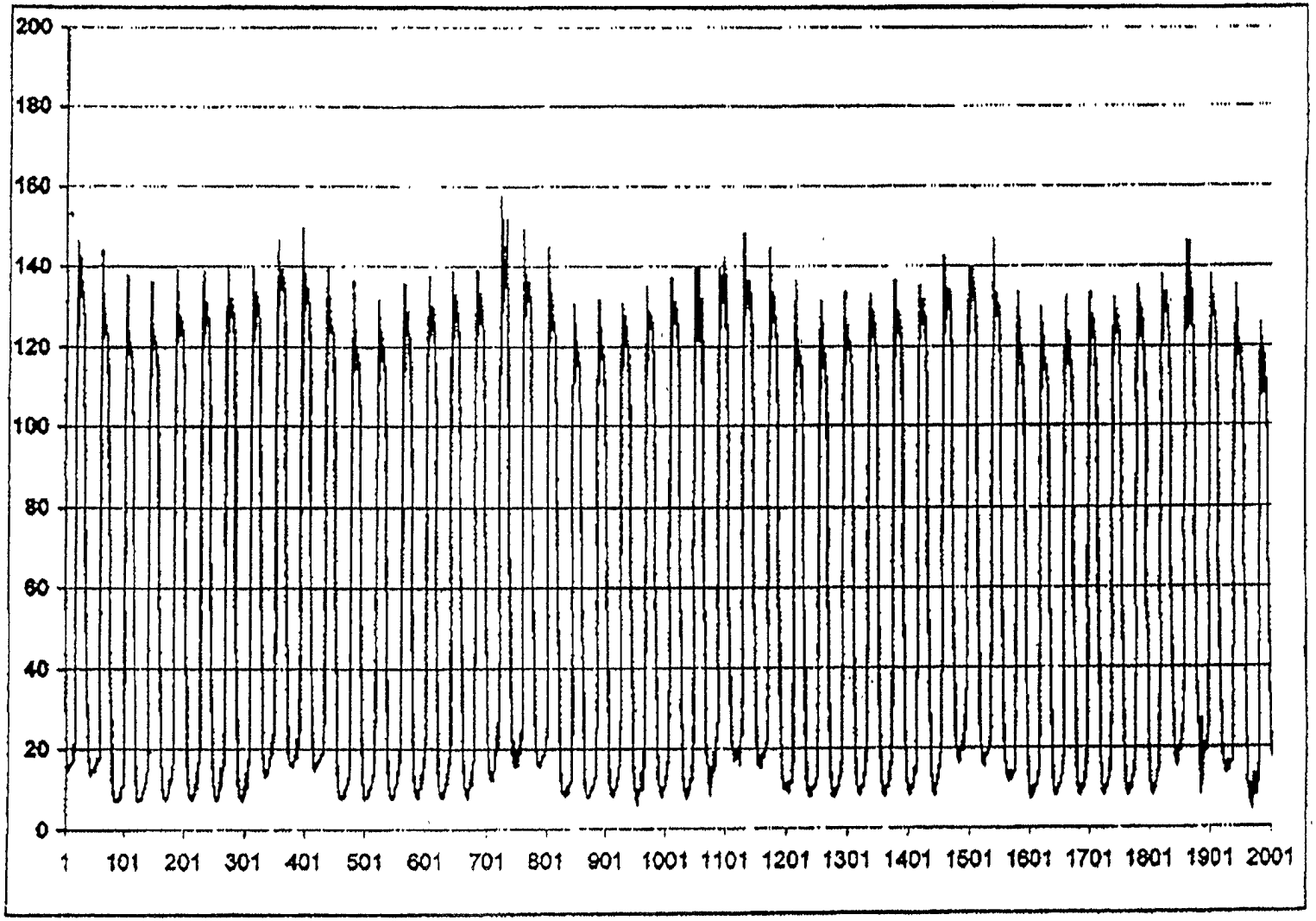
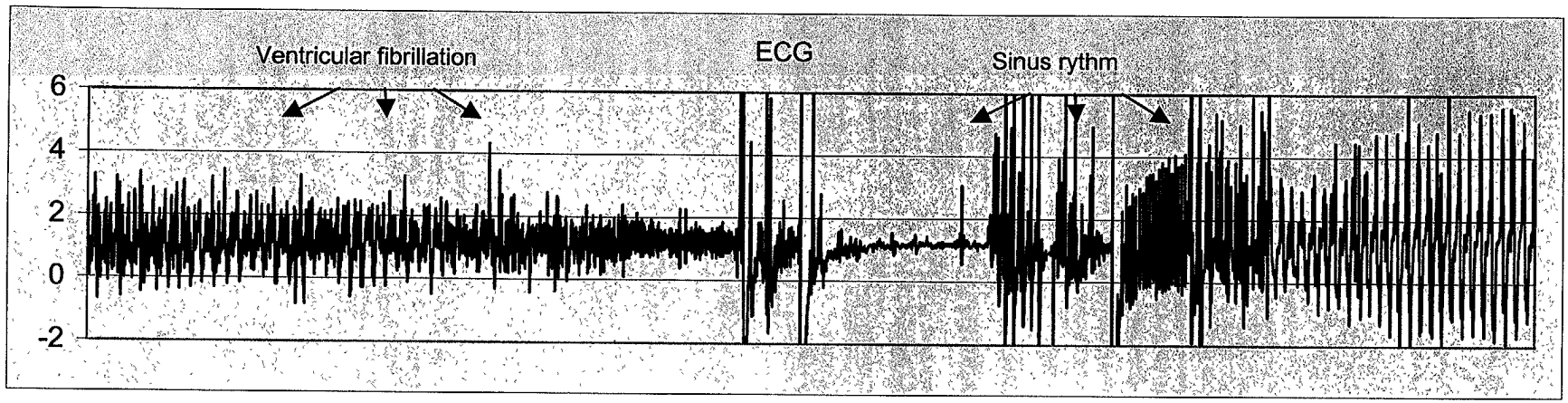
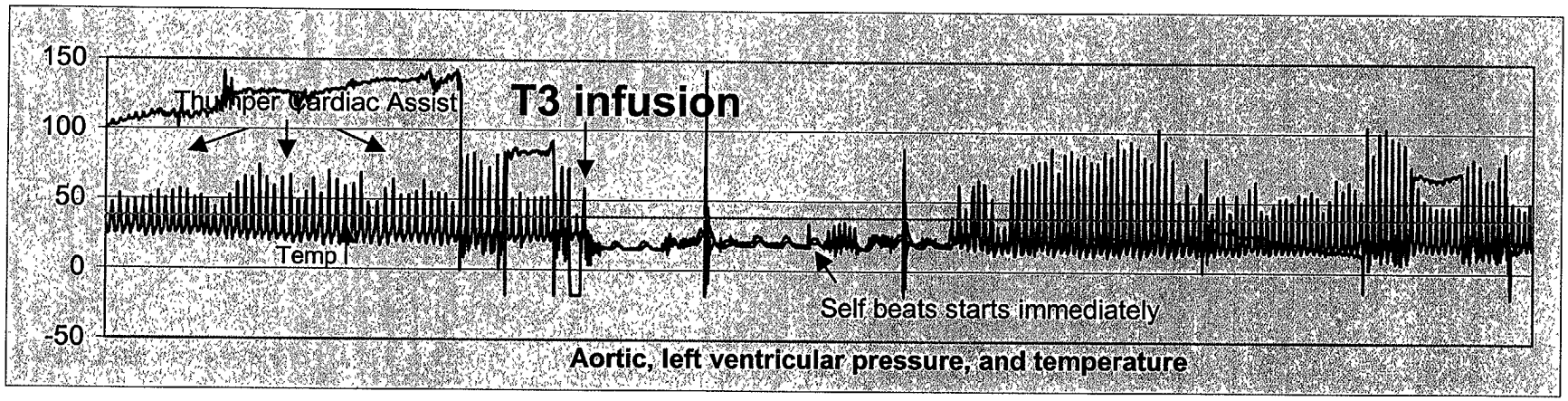
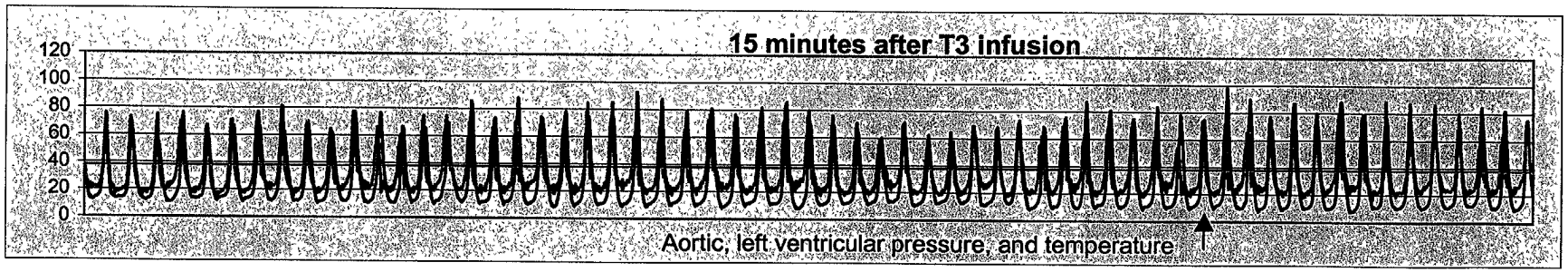


FIGURE 5

POSITA 3AC3B5E0

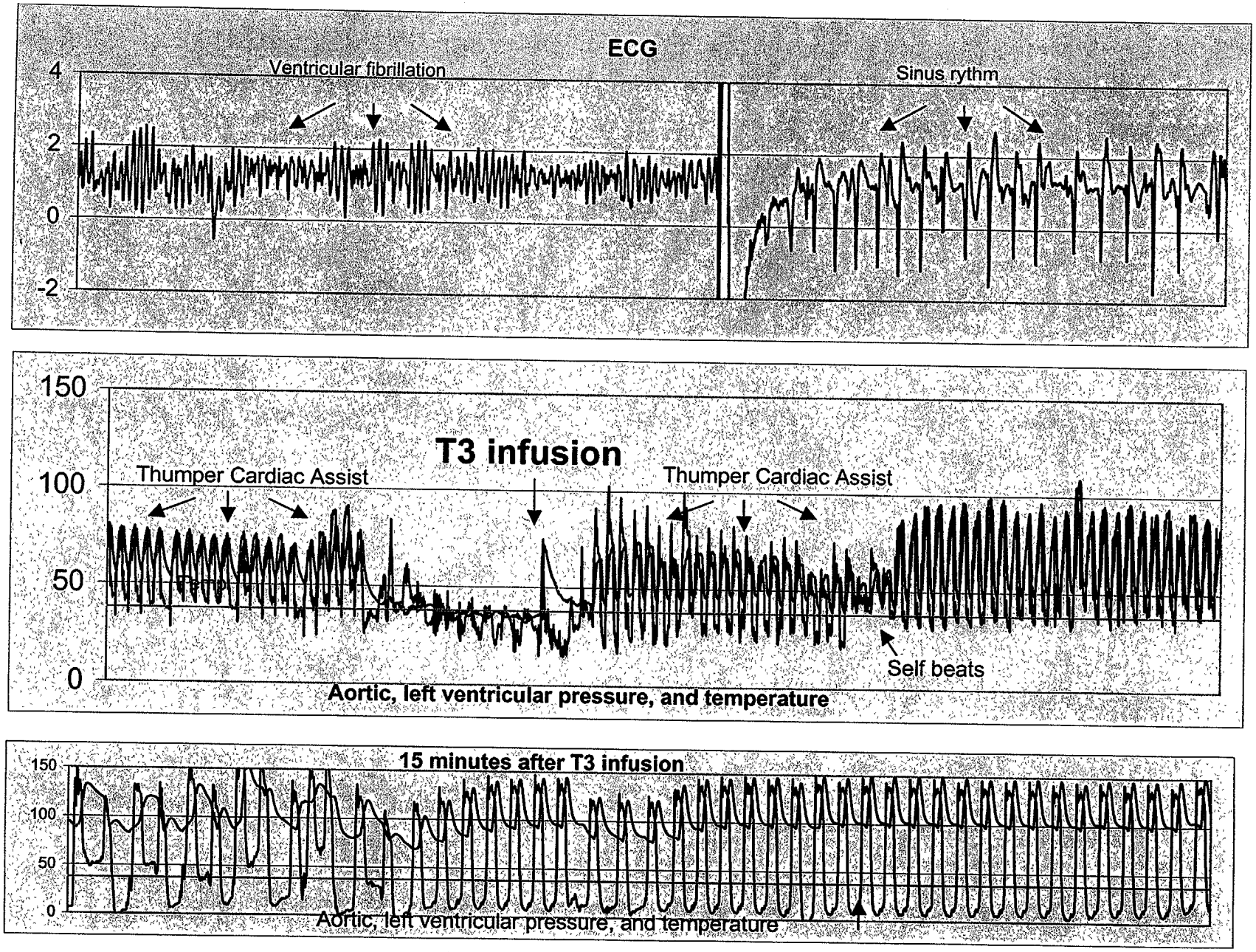






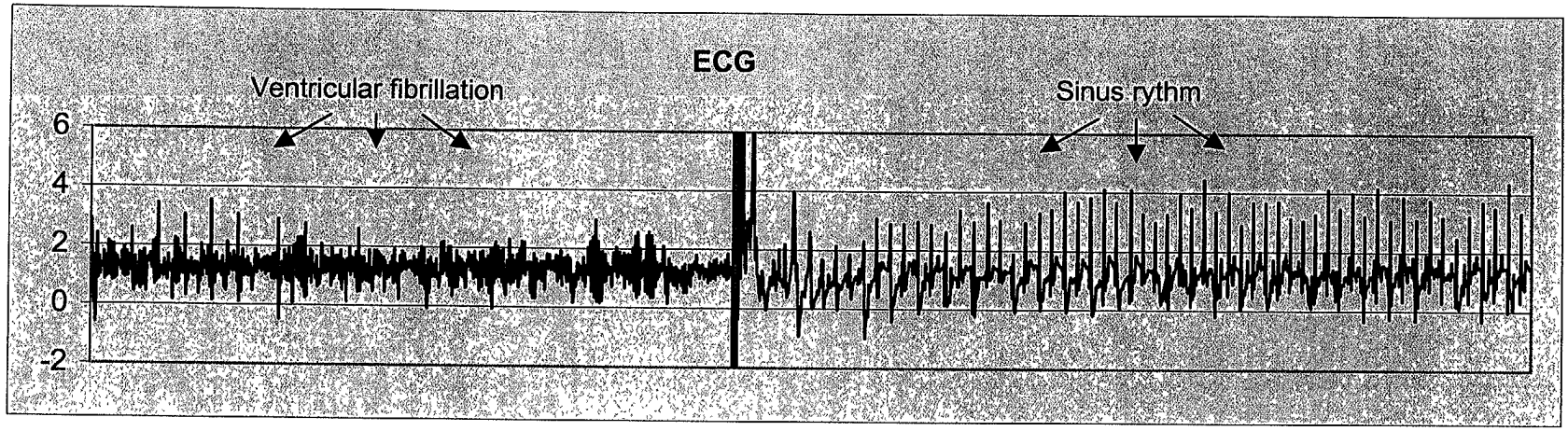
6A

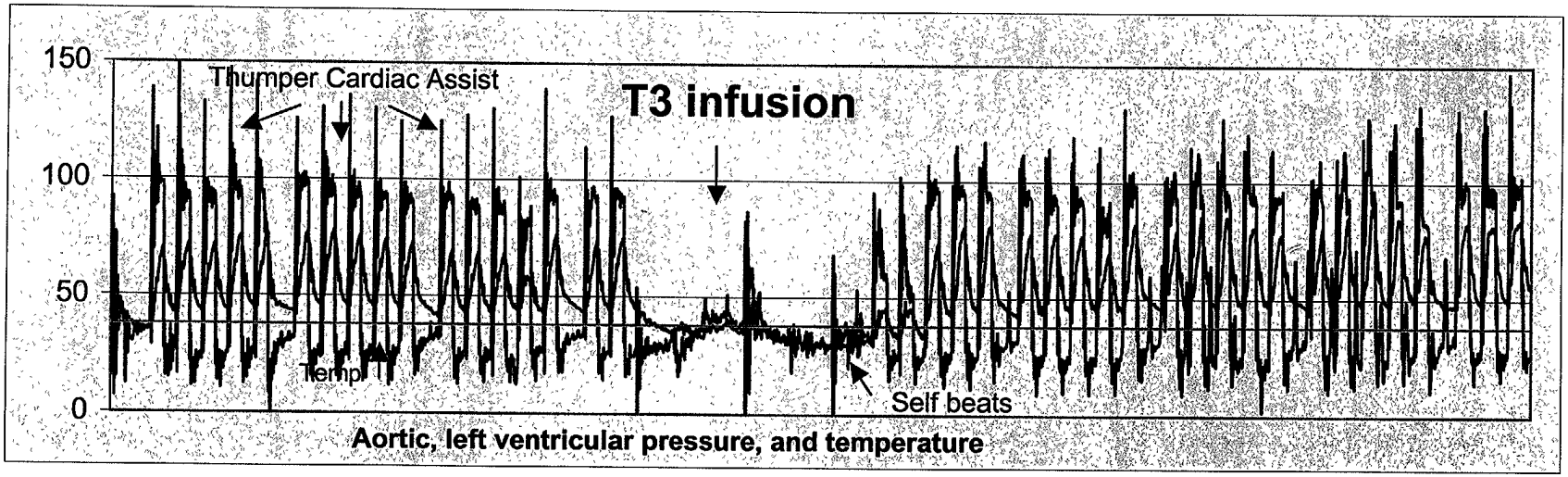
PATENT APPLICATION

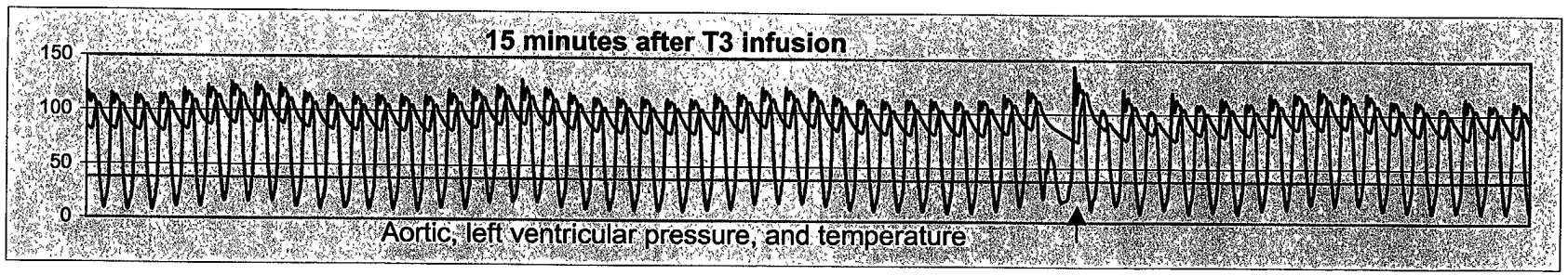


6B

T30CTF 91C05650

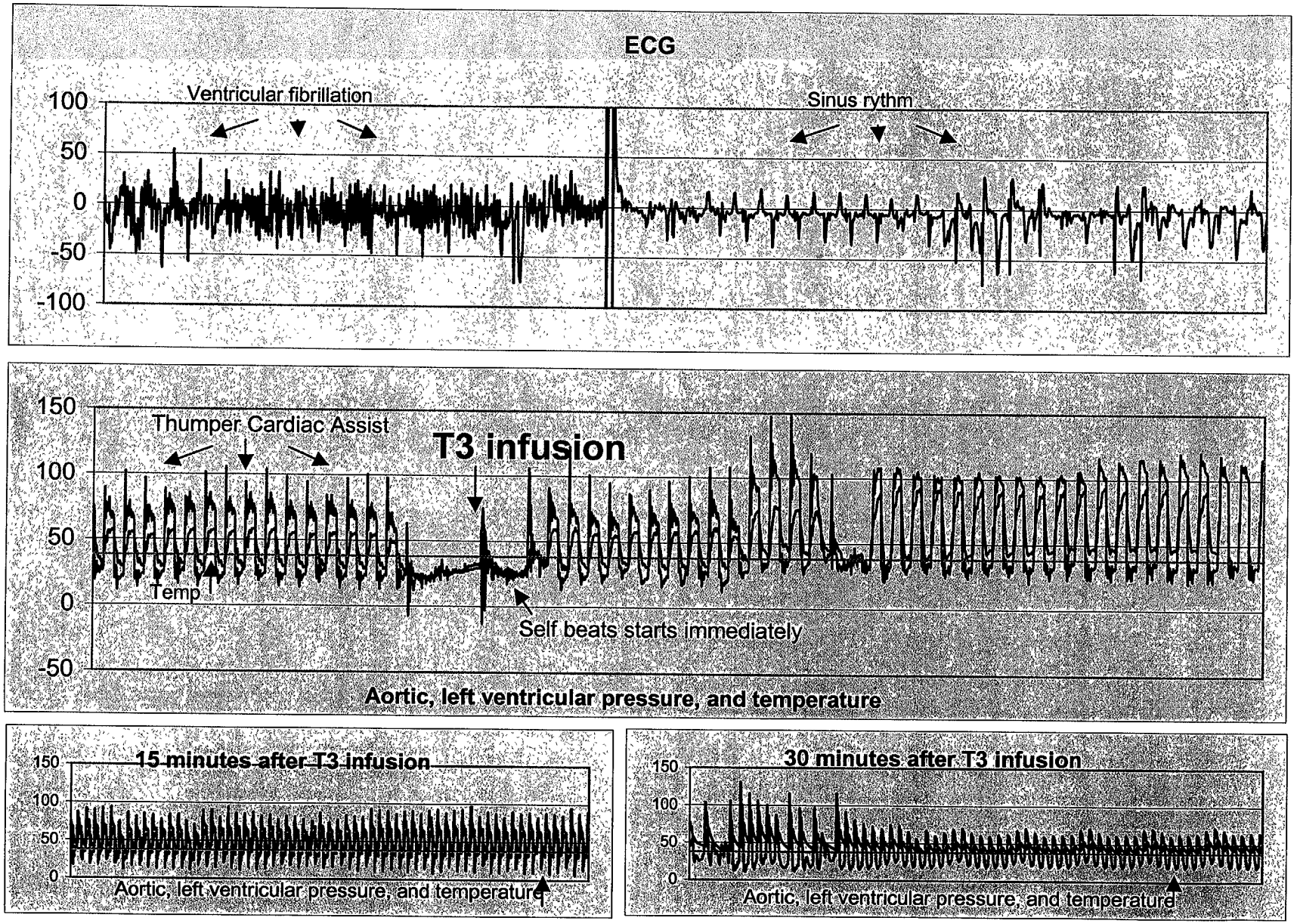






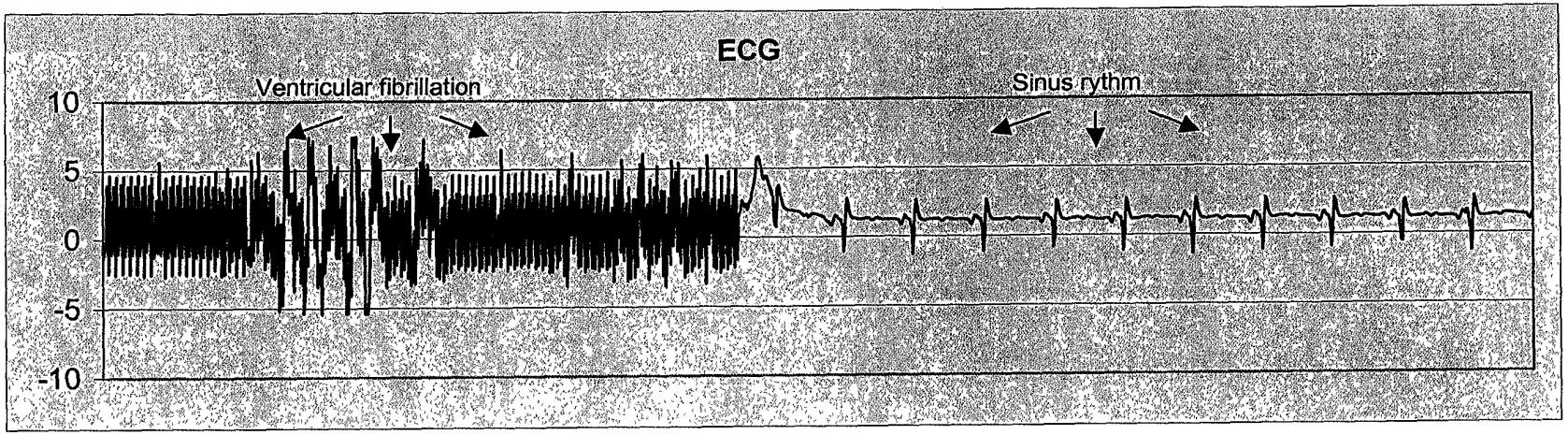
6C

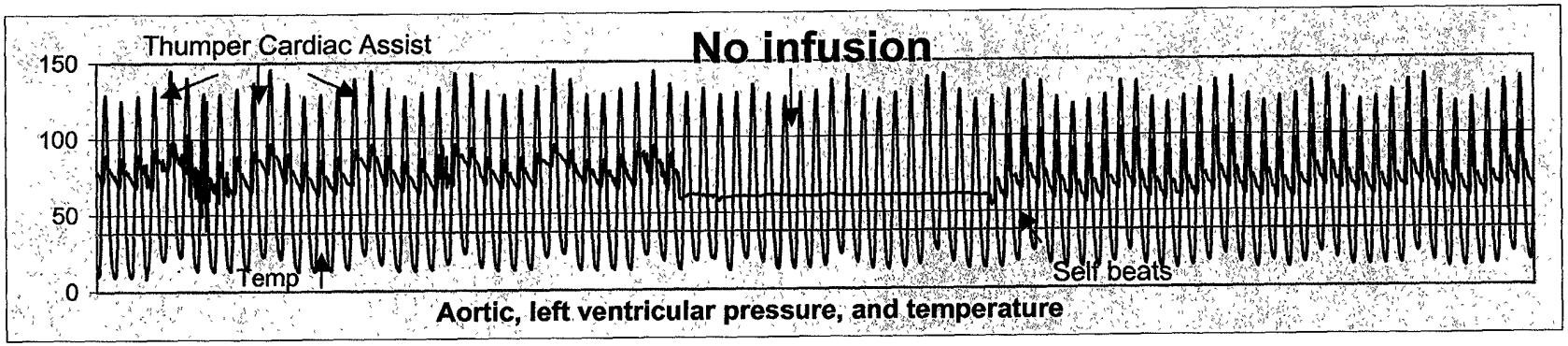
T0806TF 31C36560

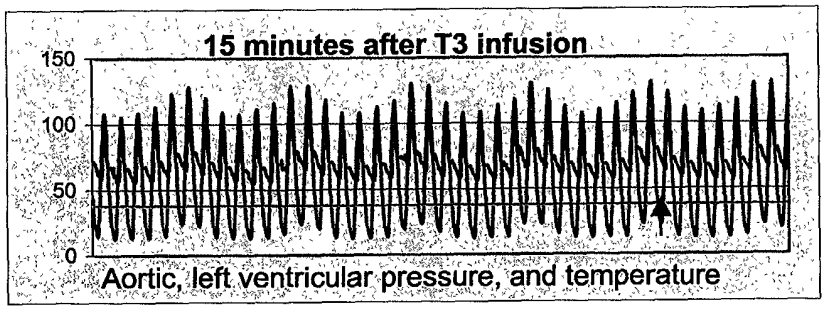


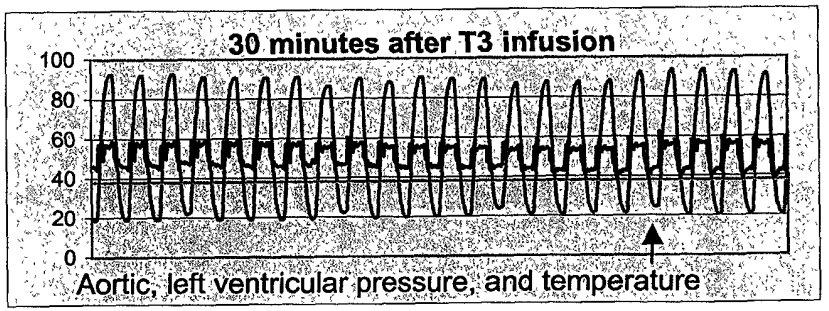
6D

PUBLIC DISCLOSURE



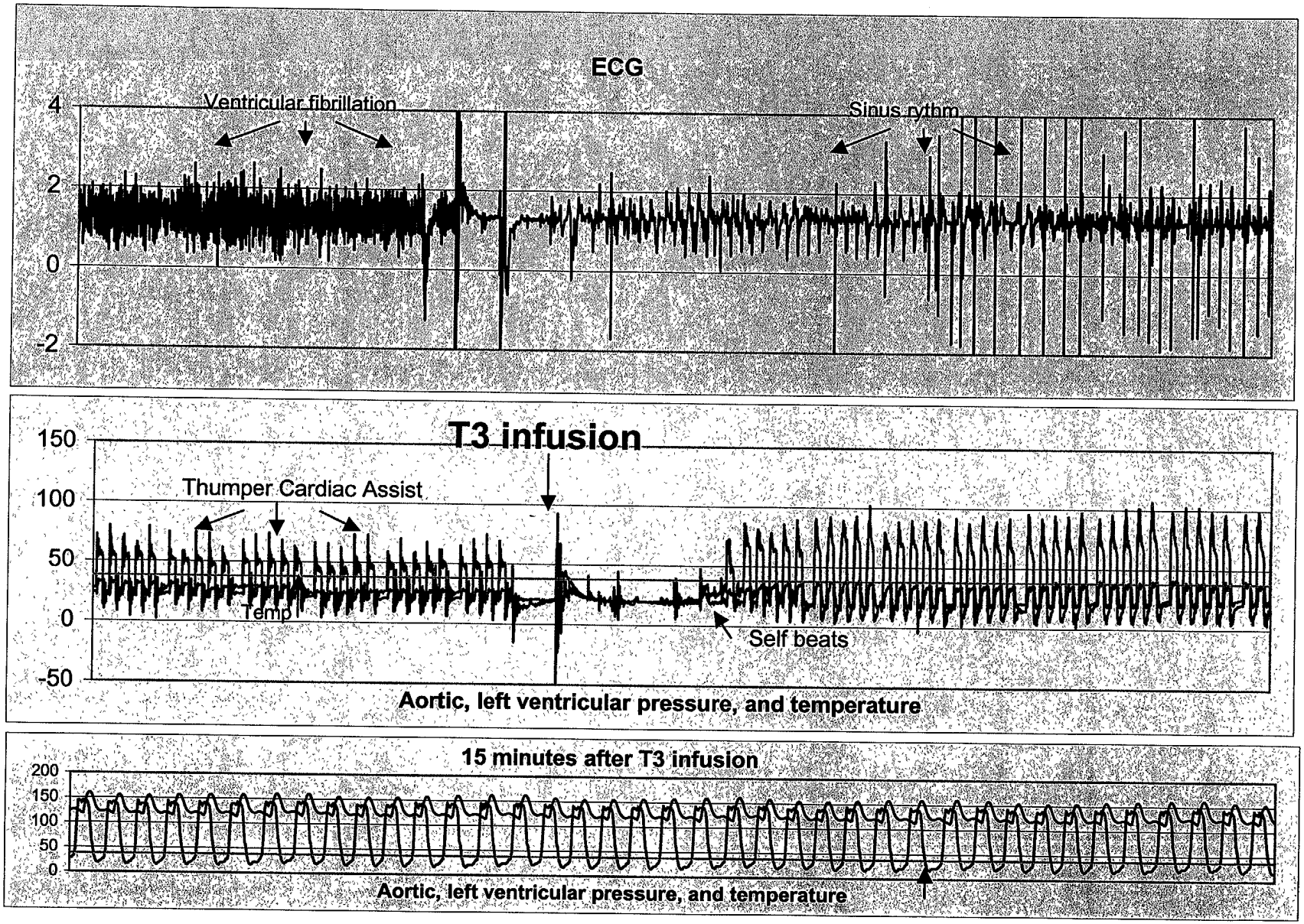




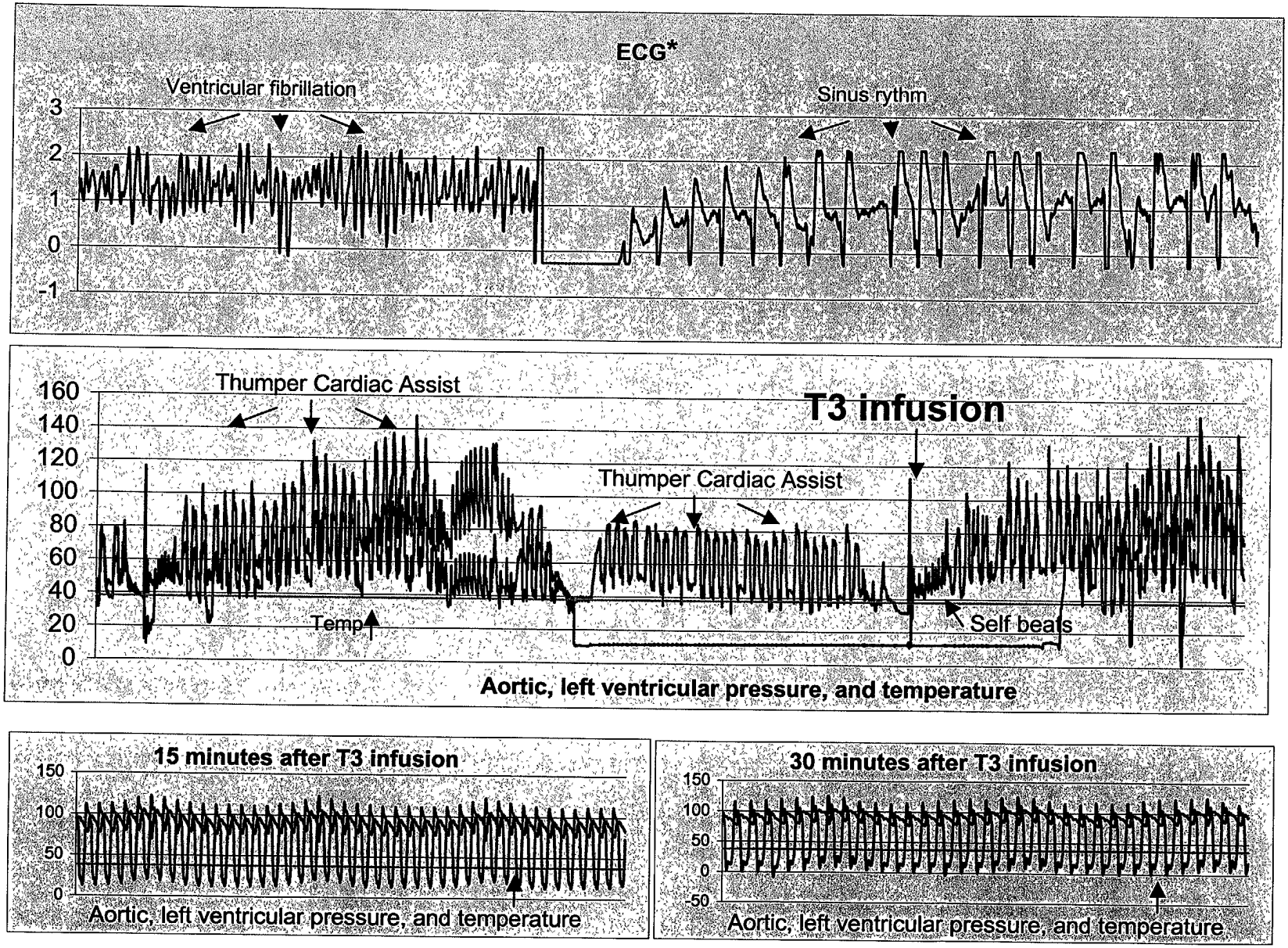


6E

FORCE 3,653,650

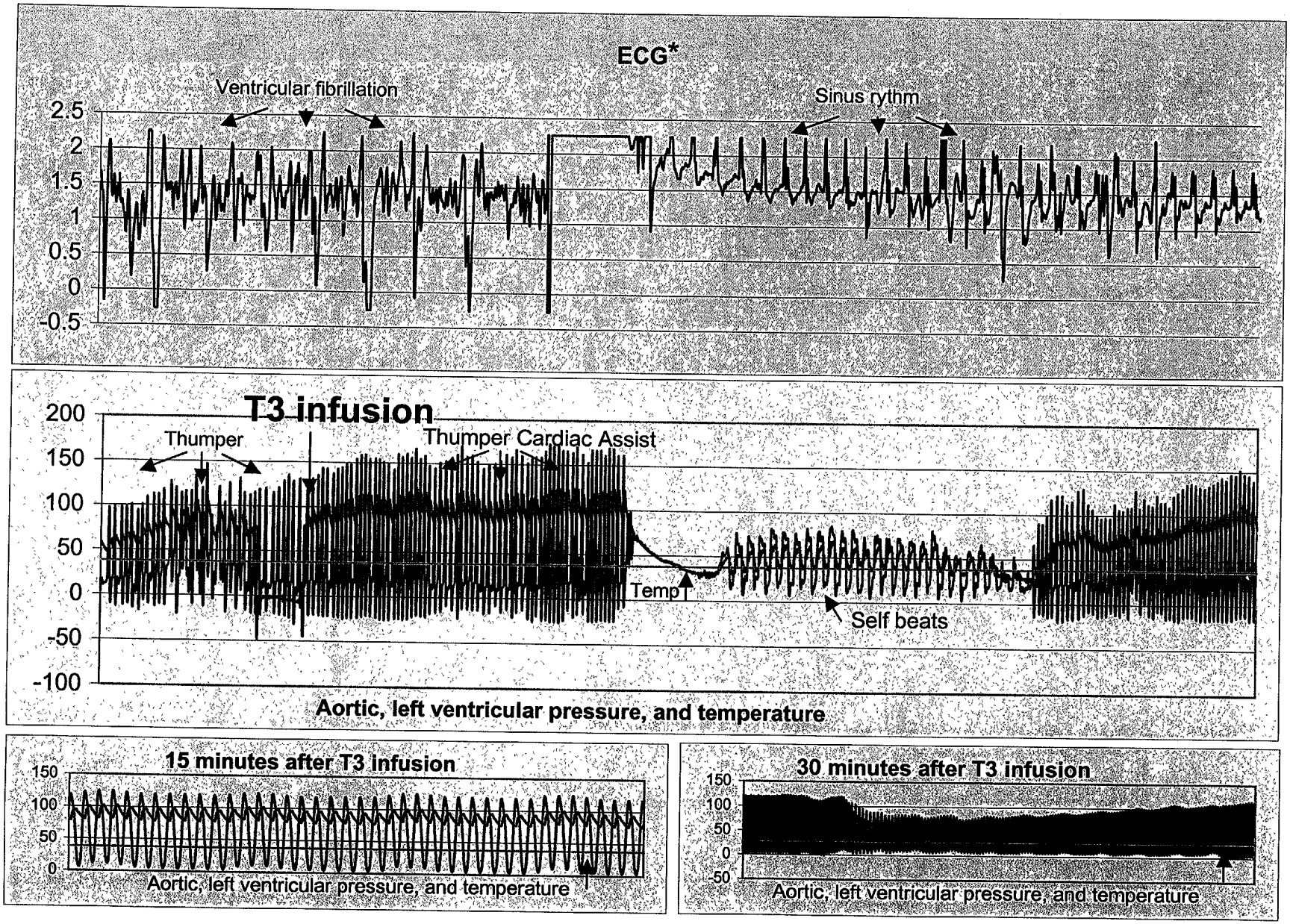


6F

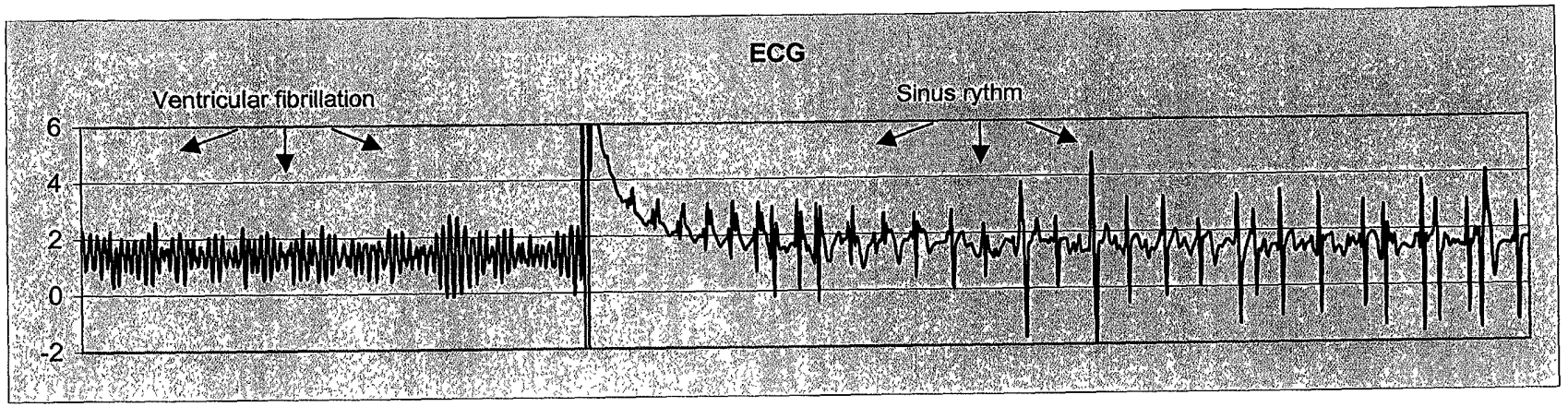

ECG*
Ventricular fibrillation
Sinus rythm
3
2
1
0
-1
Thumper Cardiac Assist
T3 infusion
Thumper Cardiac Assist
160
140
120
100
80
60
40
20
0
Temp
Self beats
Aortic, left ventricular pressure, and temperature
15 minutes after T3 infusion
150
100
50
0
Aortic, left ventricular pressure, and temperature
30 minutes after T3 infusion
150
100
50
0
-50
Aortic, left ventricular pressure, and temperature

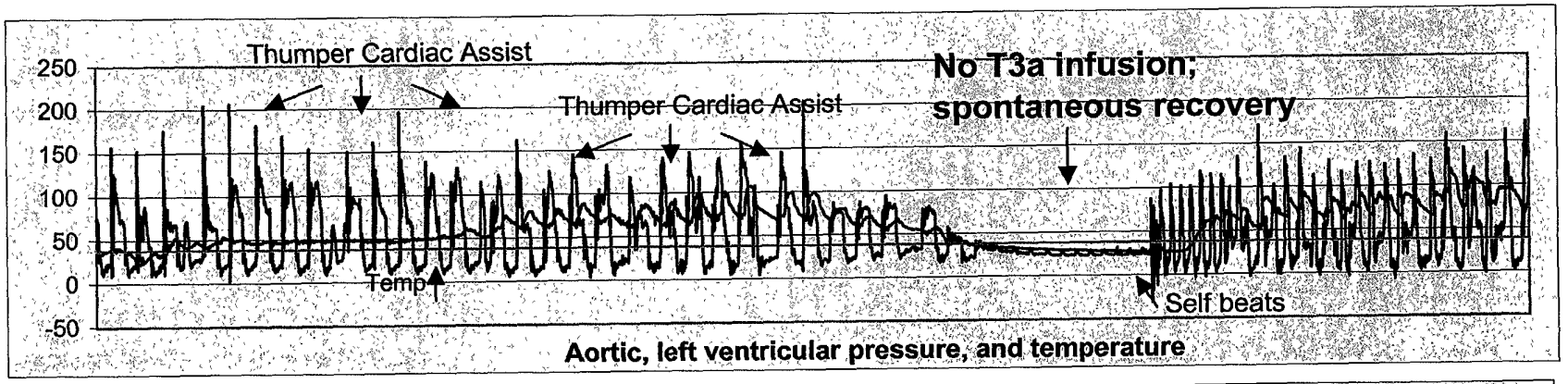
6G

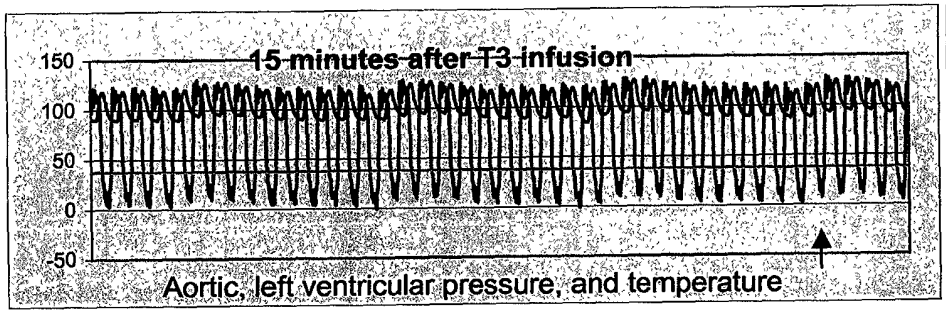
FIGURE 31


ECG*
Ventricular fibrillation
Sinus rythm
2.5
2
1.5
1
0.5
0
-0.5
T3 infusion
Thumper
Thumper Cardiac Assist
200
150
100
50
0
-50
-100
Temp
Self beats
Aortic, left ventricular pressure, and temperature
15 minutes after T3 infusion
150
100
50
0
Aortic, left ventricular pressure, and temperature
30 minutes after T3 infusion
150
100
50
0
-50
Aortic, left ventricular pressure, and temperature

H9


ECG
Ventricular fibrillation
Sinus rythm
6
4
2
0
-2


Thumper Cardiac Assist
Thumper Cardiac Assist
No T3a infusion;
spontaneous recovery
250
200
150
100
50
0
-50
Temp
Self beats
Aortic, left ventricular pressure, and temperature


15 minutes after T3 infusion
150
100
50
0
-50
Aortic, left ventricular pressure, and temperature

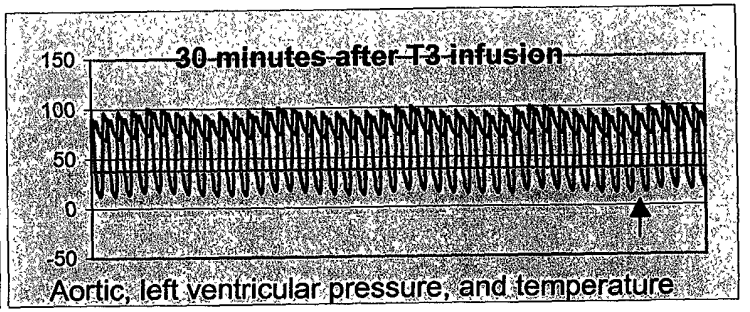

30 minutes after T3 infusion
150
100
50
0
-50
Aortic, left ventricular pressure, and temperature

FIG. 7

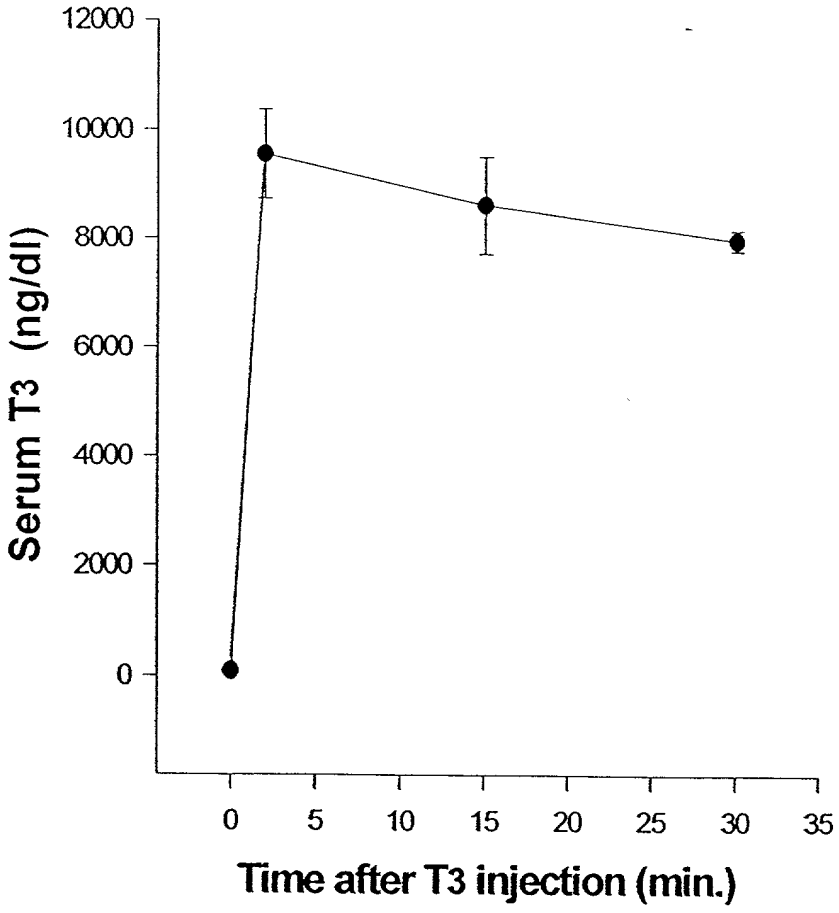

12000
10000
8000
6000
4000
2000
0
Serum T3 (ng/dl)
0
5
10
15
20
25
30
35
Time after T3 injection (min.)

Figure 8

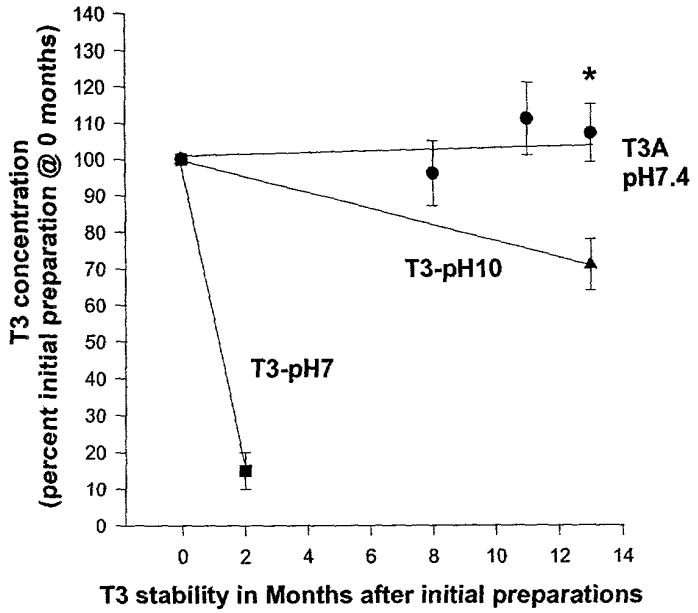


Figure 9

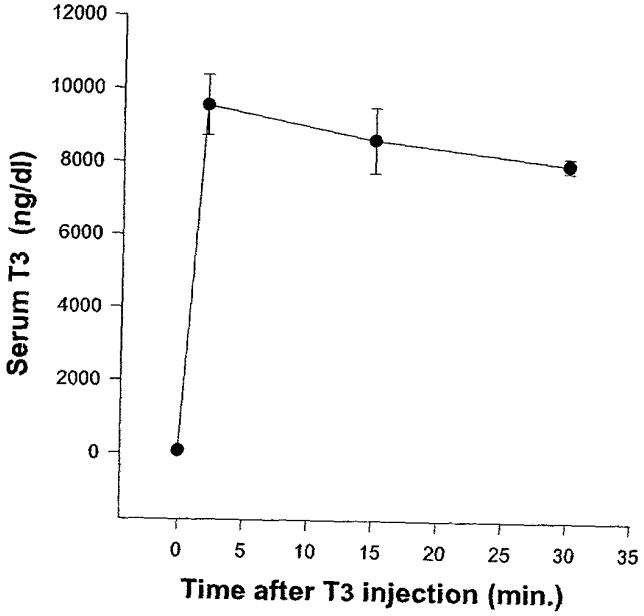


Figure 10

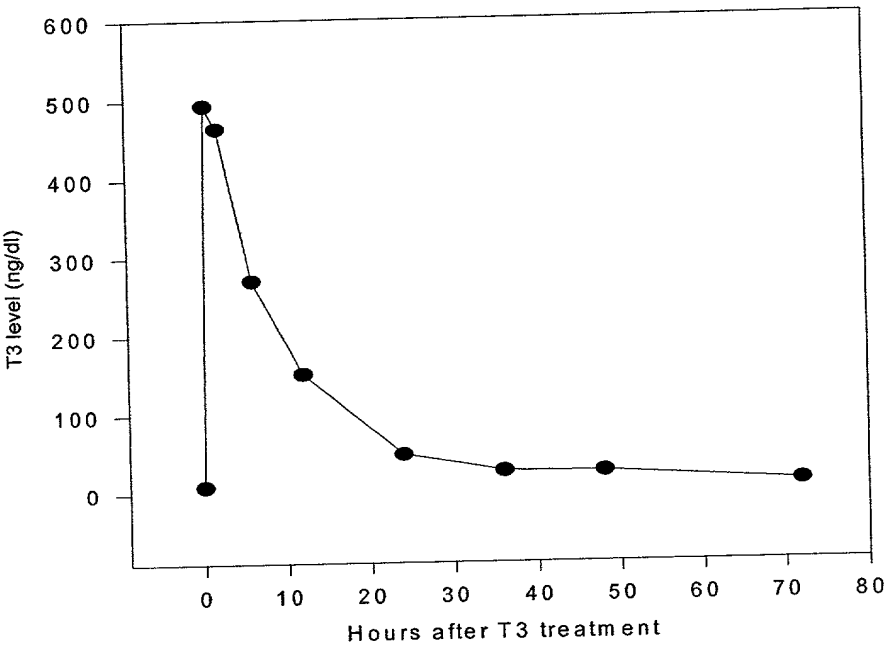


Figure 11

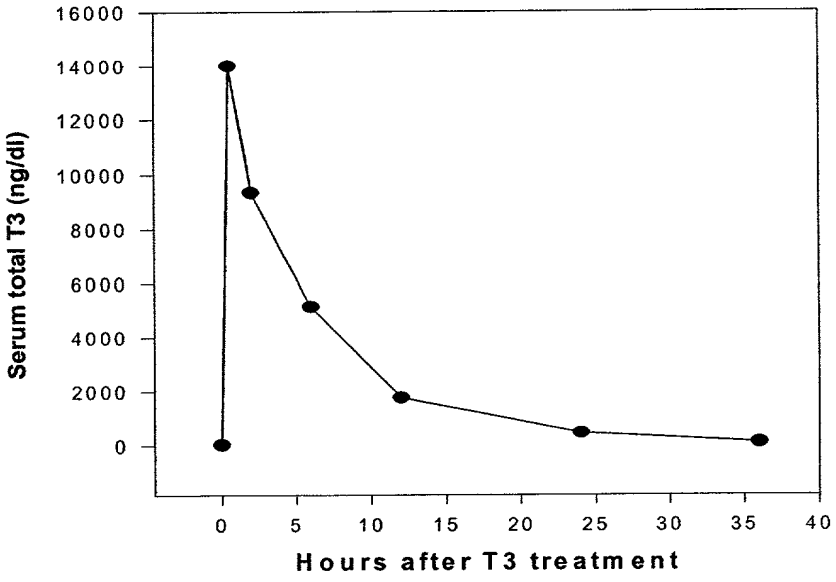


Figure 12

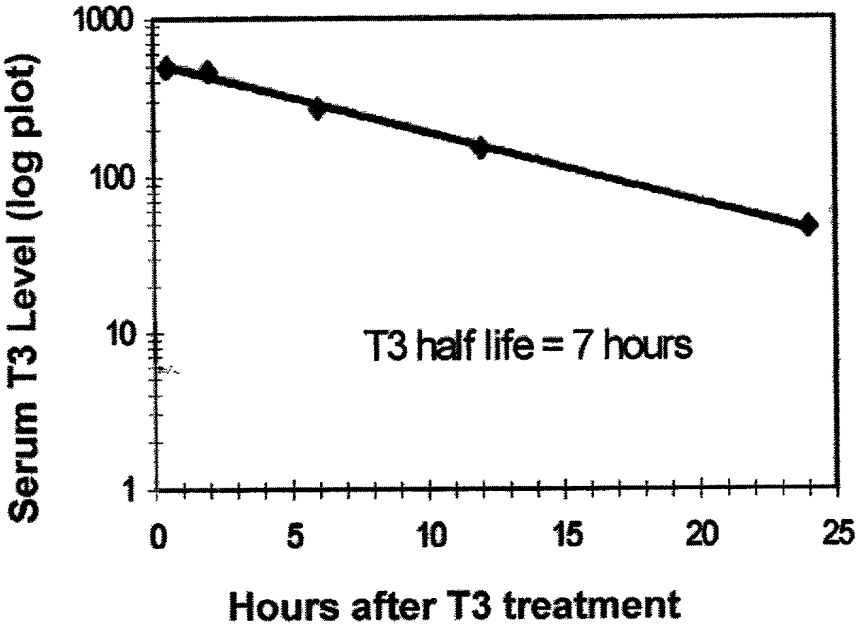
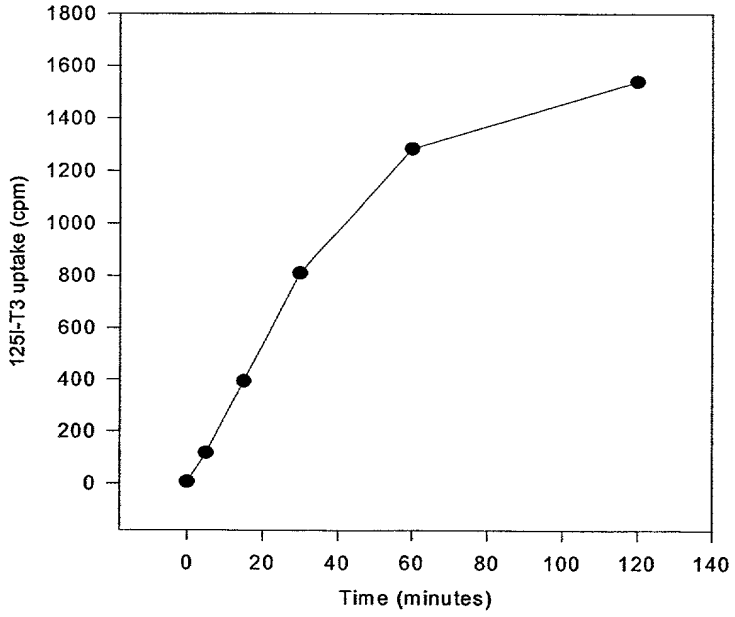



Figure 13